

# Split - Sky Air



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

Specifications are subject to change without prior notice.

## **DAIKIN EUROPE N.V.**

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# 1 Features

1

- Comfort mode reassures draught-free operation
- Vertical auto-swing function moves the discharge flaps up and down for efficient air distribution throughout the room
- You have the choice out of 5 fan speeds to select
- Daikin's special dry programme reduces humidity in the room without variation in room temperature
- Night set mode saves energy by preventing overcooling or overheating during night time
- Powerful mode can be selected for rapid cooling
- Indoor unit silent operation: "Silent" button on the remote control lowers the operation sound of the indoor unit by 3dB(A).
- The new titanium apatite photocatalytic air purification filter increases the active surface area for effective purification and deodorisation
- ECONO mode decreases power consumption so that other appliances that need large power supply can be used
- The movement sensor saves power consumption in unoccupied rooms
- Daikin remote controls give you easy control at your fingertips.



optional



5 steps

standard



(integrated titanium apatite)

## 2 Specifications

2

| 2-1 NOMINAL CAPACITY AND POWER INPUT |         |    |            |            |            |  |
|--------------------------------------|---------|----|------------|------------|------------|--|
| For indoor units only:               |         |    |            |            |            |  |
| INDOOR UNITS                         |         |    | FTKS20DVMW | FTKS25DVMW | FTKS35DVMW |  |
| NOMINAL INPUT                        | Cooling | kW | 0.035      | 0.035      | 0.040      |  |

| For combination indoor + outdoor units (air cooled): |             |     |                |                 |                 |  |
|--|-------------|-----|----------------|-----------------|-----------------|--|
| COOLING ONLY - INVERTER CONTROLLED (air cooled)      |             |     | FTKS20DVMW     | FTKS25DVMW      | FTKS35DVMW      |  |
|  |             |     | RKS20DVMB      | RKS25DVMB       | RKS35DVMB       |  |
| Cooling capacity                                     | min-nom-max | kW  | 1.2~2.0~2.6    | 1.3~2.5~3.0     | 1.4~3.4~3.8     |  |
| Nominal input  | min-nom-max | kW  | 0.30~0.49~0.83 | 0.30~0.685~0.96 | 0.30~1.045~1.27 |  |
| EER  |             |     | 4.08           | 3.65            | 3.25            |  |
| Energy label   |             |     | A              | A               | A               |  |
| Annual energy consumption                            | Cooling     | kWh | 245            | 343             | 523             |  |

| 2-2 TECHNICAL SPECIFICATIONS |                 |                  |                     | FTKS20DVMW               | FTKS25DVMW | FTKS35DVMW |
|------------------------------|-----------------|------------------|---------------------|--------------------------|------------|------------|
| Casing                       | Colour          |                  |                     | White                    |            |            |
| Dimensions                   | Packing         | Height           | mm                  | 340                      | 340        | 340        |
|                              |                 | Width            | mm                  | 855                      | 855        | 855        |
|                              |                 | Depth            | mm                  | 265                      | 265        | 265        |
|                              | Unit            | Height           | mm                  | 283                      | 283        | 283        |
|                              |                 | Width            | mm                  | 800                      | 800        | 800        |
|                              |                 | Depth            | mm                  | 195                      | 195        | 195        |
| Weight                       | Machine Weight  |                  | kg                  | 9.0                      | 9.0        | 9.0        |
|                              | Gross Weight    |                  | kg                  | 12.0                     | 12.0       | 12.0       |
| Heat Exchanger               | Dimensions      | Length           | mm                  | 610                      | 610        | 610        |
|                              |                 | Nr of Rows       |                     | 2                        | 2          | 2          |
|                              |                 | Fin Pitch        | mm                  | 1.40                     | 1.40       | 1.40       |
|                              |                 | Nr of Stages     |                     | 12                       | 12         | 12         |
|                              | Tube type       |                  |                     | Hi-XA (7)                |            |            |
|                              | Fin             | Type             |                     | ML fin (Multi louver)    |            |            |
| Fan                          | Type            |                  |                     | Cross flow fan           |            |            |
| Air Flow Rate                | Cooling         | High             | m <sup>3</sup> /min | 8.7                      | 8.7        | 8.9        |
|                              |                 | Medium           | m <sup>3</sup> /min | 6.7                      | 6.7        | 6.9        |
|                              |                 | Low              | m <sup>3</sup> /min | 4.7                      | 4.7        | 4.9        |
|                              |                 | Silent Operation | m <sup>3</sup> /min | 3.9                      | 3.9        | 4.0        |
| Fan                          | Motor           | Quantity         |                     | 1                        | 1          | 1          |
|                              |                 | Model            |                     | KFD-280-40-8B            |            |            |
|                              |                 | Number of steps  |                     | 5 steps, silent and auto |            |            |
| Motor                        | Speed (cooling) | High             | rpm                 | 1290                     | 1290       | 1310       |
|                              |                 | Medium           | rpm                 | 1050                     | 1050       | 1070       |
|                              |                 | Low              | rpm                 | 810                      | 810        | 830        |
|                              |                 | Silent Operation | rpm                 | 710                      | 710        | 730        |
| Fan                          | Motor           | Output (high)    | W                   | 40                       | 40         | 40         |
| Cooling                      | Sound Power     | High             | dBA                 | 56.0                     | 56.0       | 57.0       |
|                              | Sound Pressure  | High             | dBA                 | 38.0                     | 38.0       | 39.0       |
|                              |                 | Low              | dBA                 | 25.0                     | 25.0       | 26.0       |
|                              |                 | Silent Operation | dBA                 | 22.0                     | 22.0       | 23.0       |
| Refrigerant                  | Type            |                  |                     | R-410A                   |            |            |

| 2-2 TECHNICAL SPECIFICATIONS |                 |               |    | FTKS20DVMW  | FTKS25DVMW | FTKS35DVMW |
|------------------------------|-----------------|---------------|----|---|------------|------------|
| Piping connections           | Liquid (OD)     | Diameter (OD) | mm | 6.35  | 6.4        | 6.4        |
|                              | Gas             | Diameter (OD) | mm | 9.5   | 9.5        | 9.5        |
|                              | Drain           | Diameter (OD) | mm | 18  | 18         | 18         |
|                              | Heat Insulation |               |    | Both liquid and gas pipes                               |            |            |
| Air Filter                   |                 |               |    | Removable/washable/Mildew proof                         |            |            |
| Air direction control        |                 |               |    | Left, right, up and downwards                           |            |            |
| Temperature control          |                 |               |    | Microcomputer control                                   |            |            |
| Standard Accessories         | Item            |               |    | Titanium apatite photocatalytic air purification filter |            |            |
|                              | Quantity        |               |    | 2   | 2          | 2          |
|                              | Item            |               |    | Operation manual  |            |            |
|                              | Quantity        |               |    | 1   | 1          | 1          |
|                              | Item            |               |    | Installation manual                                     |            |            |
|                              | Quantity        |               |    | 1   | 1          | 1          |
|                              | Item            |               |    | Infrared remote control                                 |            |            |
|                              | Quantity        |               |    | 1   | 1          | 1          |
|                              | Item            |               |    | Batteries   |            |            |
|                              | Quantity        |               |    | 2   | 2          | 2          |
|                              | Item            |               |    | Remote control holder                                   |            |            |
|                              | Quantity        |               |    | 1   | 1          | 1          |
|                              | Item            |               |    | Indoor unit fixing screws                               |            |            |
|                              | Quantity        |               |    | 2   | 2          | 2          |
|                              | Item            |               |    | Mounting plate  |            |            |
|                              | Quantity        |               |    | 1   | 1          | 1          |

| 2-3 ELECTRICAL SPECIFICATIONS |                               |          |    | FTKS20DVMW                                     | FTKS25DVMW | FTKS35DVMW |
|-------------------------------|-------------------------------|----------|----|--|------------|------------|
| Power Supply                  | Name                          |          |    | VM   | VM         | VM         |
|                               | Phase                         |          |    | 1  | 1          | 1          |
|                               | Frequency                     |          | Hz | 50/60  |            |            |
|                               | Voltage                       |          | V  | 220-240/220-230                                |            |            |
| Current                       | Nominal running current (RLA) | Cooling  | A  | 0.16   | 0.16       | 0.18       |
| Wiring connections            | For Power Supply              | Quantity |    | 3  | 3          | 3          |
|                               |                               | Remark   |    | 4 for interunit wiring (included earth wiring) |            |            |
| Voltage range                 | Minimum                       |          |    | -10%   |            |            |
|                               | Maximum                       |          |    | +10%   |            |            |
| Power Supply Intake           |                               |          |    | Outdoor unit only                              |            |            |

| 2-4 NOMINAL CAPACITY AND POWER INPUT |         |  |    |            |            |            |
|--------------------------------------|---------|--|----|------------|------------|------------|
| For indoor units only:               |         |  |    |            |            |            |
| INDOOR UNITS                         |         |  |    | FTXS20DVMW | FTXS25DVMW | FTXS35DVMW |
| NOMINAL INPUT                        | Cooling |  | kW | 0.035      | 0.035      | 0.040      |
|                                      | Heating |  | kW | 0.035      | 0.035      | 0.040      |

| For combination indoor + outdoor units (air cooled): |         |             |     |                |                 |                 |
|--|---------|-------------|-----|----------------|-----------------|-----------------|
| COOLING ONLY - INVERTER CONTROLLED (air cooled)      |         |             |     | FTXS20DVMW     | FTXS25DVMW      | FTXS35DVMW      |
|  |         |             |     | RXS20DVMW      | RXS25DVMW       | RXS35DVMW       |
| Cooling capacity                                     |         | min~nom~max | kW  | 1.3~2.0~2.6    | 1.3~2.5~3.0     | 1.4~3.4~3.8     |
| Heating capacity                                     |         | min~nom~max | kW  | 1.3~2.7~4.1    | 1.3~3.4~4.5     | 1.4~4.0~5.0     |
| Nominal input  | Cooling | min~nom~max | kW  | 0.30~0.49~0.83 | 0.30~0.685~0.96 | 0.30~1.045~1.27 |
|  | Heating | min~nom~max | kW  | 0.29~0.66~1.30 | 0.29~0.92~1.43  | 0.31~1.155~1.56 |
| EER  |         |             |     | 4.08           | 3.65            | 3.25            |
| COP  |         |             |     | 4.09           | 3.70            | 3.46            |
| Energy label   | Cooling |             |     | A              | A               | A               |
|  | Heating |             |     | A              | A               | B               |
| Annual energy consumption                            |         |             | kWh | 245            | 343             | 523             |

| 2-5 TECHNICAL SPECIFICATIONS |                 |                  |        | FTXS20DVMW                      |  | FTXS25DVMW    |  | FTXS35DVMW    |  |
|------------------------------|-----------------|------------------|--------|---------------------------------|--|---------------|--|---------------|--|
| Casing                       | Colour          |                  |        | White                           |  |               |  |               |  |
| Dimensions                   | Packing         | Height           | mm     | 340                             |  | 340           |  | 340           |  |
|                              |                 | Width            | mm     | 855                             |  | 855           |  | 855           |  |
|                              |                 | Depth            | mm     | 265                             |  | 265           |  | 265           |  |
|                              | Unit            | Height           | mm     | 283                             |  | 283           |  | 283           |  |
|                              |                 | Width            | mm     | 800                             |  | 800           |  | 800           |  |
|                              |                 | Depth            | mm     | 195                             |  | 195           |  | 195           |  |
| Weight                       | Machine Weight  |                  | kg     | 9.0                             |  | 9.0           |  | 9.0           |  |
|                              | Gross Weight    |                  | kg     | 12.0                            |  | 12.0          |  | 12.0          |  |
| Heat Exchanger               | Dimensions      | Length           | mm     | 610                             |  | 610           |  | 610           |  |
|                              |                 | Nr of Rows       |        | 2                               |  | 2             |  | 2             |  |
|                              |                 | Fin Pitch        | mm     | 1.40                            |  | 1.40          |  | 1.40          |  |
|                              |                 | Nr of Stages     |        | 12                              |  | 12            |  | 12            |  |
|                              | Tube type       |                  |        | Hi-XA (7)                       |  |               |  |               |  |
|                              | Fin             | Type             |        | ML fin (Multi louver)           |  |               |  |               |  |
| Fan                          | Type            |                  |        | Cross flow fan                  |  |               |  |               |  |
| Air Flow Rate                | Cooling         | High             | m³/min | 8.7                             |  | 8.7           |  | 8.9           |  |
|                              |                 | Medium           | m³/min | 6.7                             |  | 6.7           |  | 6.9           |  |
|                              |                 | Low              | m³/min | 4.7                             |  | 4.7           |  | 4.8           |  |
|                              |                 | Silent Operation | m³/min | 3.9                             |  | 3.9           |  | 4.0           |  |
|                              | Heating         | High             | m³/min | 9.4                             |  | 9.4           |  | 9.7           |  |
|                              |                 | Medium           | m³/min | 7.6                             |  | 7.6           |  | 7.9           |  |
|                              |                 | Low              | m³/min | 5.8                             |  | 5.8           |  | 6.0           |  |
|                              |                 | Silent Operation | m³/min | 5.0                             |  | 5.0           |  | 5.2           |  |
| Fan                          | Motor           | Quantity         |        | 1                               |  | 1             |  | 1             |  |
|                              |                 | Model            |        | KFD-28040-8B                    |  | KFD-280-40-8B |  | KFD-280-40-8B |  |
|                              |                 | Number of steps  |        | 5 steps, silent and auto        |  |               |  |               |  |
| Motor                        | Speed (cooling) | High             | rpm    | 1290                            |  | 1290          |  | 1310          |  |
|                              |                 | Medium           | rpm    | 1050                            |  | 1050          |  | 1070          |  |
|                              |                 | Low              | rpm    | 810                             |  | 810           |  | 830           |  |
|                              |                 | Silent Operation | rpm    | 710                             |  | 710           |  | 730           |  |
|                              | Speed (heating) | High             | rpm    | 1320                            |  | 1320          |  | 1360          |  |
|                              |                 | Medium           | rpm    | 1120                            |  | 1120          |  | 1150          |  |
|                              |                 | Low              | rpm    | 920                             |  | 920           |  | 940           |  |
|                              |                 | Silent Operation | rpm    | 820                             |  | 820           |  | 840           |  |
| Fan                          | Motor           | Output (high)    | W      | 40                              |  | 40            |  | 40            |  |
| Cooling                      | Sound Power     | High             | dBA    | 56.0                            |  | 56.0          |  | 57.0          |  |
|                              | Sound Pressure  | High             | dBA    | 38.0                            |  | 38.0          |  | 39.0          |  |
|                              |                 | Low              | dBA    | 25.0                            |  | 25.0          |  | 26.0          |  |
|                              |                 | Silent Operation | dBA    | 22.0                            |  | 22.0          |  | 23.0          |  |
| Heating                      | Sound Power     | High             | dBA    | 56.0                            |  | 56.0          |  | 57.0          |  |
|                              | Sound Pressure  | High             | dBA    | 38.0                            |  | 38.0          |  | 39.0          |  |
|                              |                 | Low              | dBA    | 28.0                            |  | 28.0          |  | 29.0          |  |
|                              |                 | Silent Operation | dBA    | 25.0                            |  | 25.0          |  | 26.0          |  |
| Refrigerant                  | Type            |                  |        | R-410A                          |  |               |  |               |  |
| Piping connections           | Liquid (OD)     | Diameter (OD)    | mm     | 6.4                             |  | 6.4           |  | 6.4           |  |
|                              | Gas             | Diameter (OD)    | mm     | 9.5                             |  | 9.5           |  | 9.5           |  |
|                              | Drain           | Diameter (OD)    | mm     | 18                              |  | 18            |  | 18            |  |
|                              | Heat Insulation |                  |        | Both liquid and gas pipes       |  |               |  |               |  |
| Air Filter                   |                 |                  |        | Removable/washable/Mildew proof |  |               |  |               |  |
| Air direction control        |                 |                  |        | Left, right, up and downwards   |  |               |  |               |  |
| Temperature control          |                 |                  |        | Microcomputer control           |  |               |  |               |  |

| 2-5 TECHNICAL SPECIFICATIONS |          | FTXS20DVMW  | FTXS25DVMW | FTXS35DVMW |
|------------------------------|----------|---|------------|------------|
| Standard Accessories         | Item     | Titanium apatite photocatalytic air purification filter |            |            |
|                              | Quantity | 2   | 2          | 2          |
|                              | Item     | Operation manual  |            |            |
|                              | Quantity | 1   | 1          | 1          |
|                              | Item     | Installation manual                                     |            |            |
|                              | Quantity | 1   | 1          | 1          |
|                              | Item     | Infrared remote control                                 |            |            |
|                              | Quantity | 1   | 1          | 1          |
|                              | Item     | Batteries   |            |            |
|                              | Quantity | 2   | 2          | 2          |
|                              | Item     | Remote control holder                                   |            |            |
|                              | Quantity | 1   | 1          | 1          |
|                              | Item     | Indoor unit fixing screws                               |            |            |
|                              | Quantity | 2   | 2          | 2          |
|                              | Item     | Mounting plate  |            |            |
|                              | Quantity | 1   | 1          | 1          |

| 2-6 ELECTRICAL SPECIFICATIONS |                               |          |    | FTXS20DVMW                                     |  | FTXS25DVMW |  | FTXS35DVMW |  |
|-------------------------------|-------------------------------|----------|----|--|--|------------|--|------------|--|
| Power Supply                  | Name                          |          |    | VM   |  | VM         |  | VM         |  |
|                               | Phase                         |          |    | 1  |  | 1          |  | 1          |  |
|                               | Frequency                     |          | Hz | 50/60  |  |            |  |            |  |
|                               | Voltage                       |          | V  | 220-240/220-230                                |  |            |  |            |  |
| Current                       | Nominal running current (RLA) | Cooling  | A  | 0.16   |  | 0.16       |  | 0.18       |  |
|                               |                               | Heating  | A  | 0.16   |  | 0.16       |  | 0.18       |  |
| Wiring connections            | For Power Supply              | Quantity |    | 3  |  | 3          |  | 3          |  |
|                               |                               | Remark   |    | 4 for interunit wiring (included earth wiring) |  |            |  |            |  |
| Voltage range                 | Minimum                       |          |    | -10%   |  |            |  |            |  |
|                               | Maximum                       |          |    | +10%   |  |            |  |            |  |
| Power Supply Intake           |                               |          |    | Outdoor unit only                              |  |            |  |            |  |

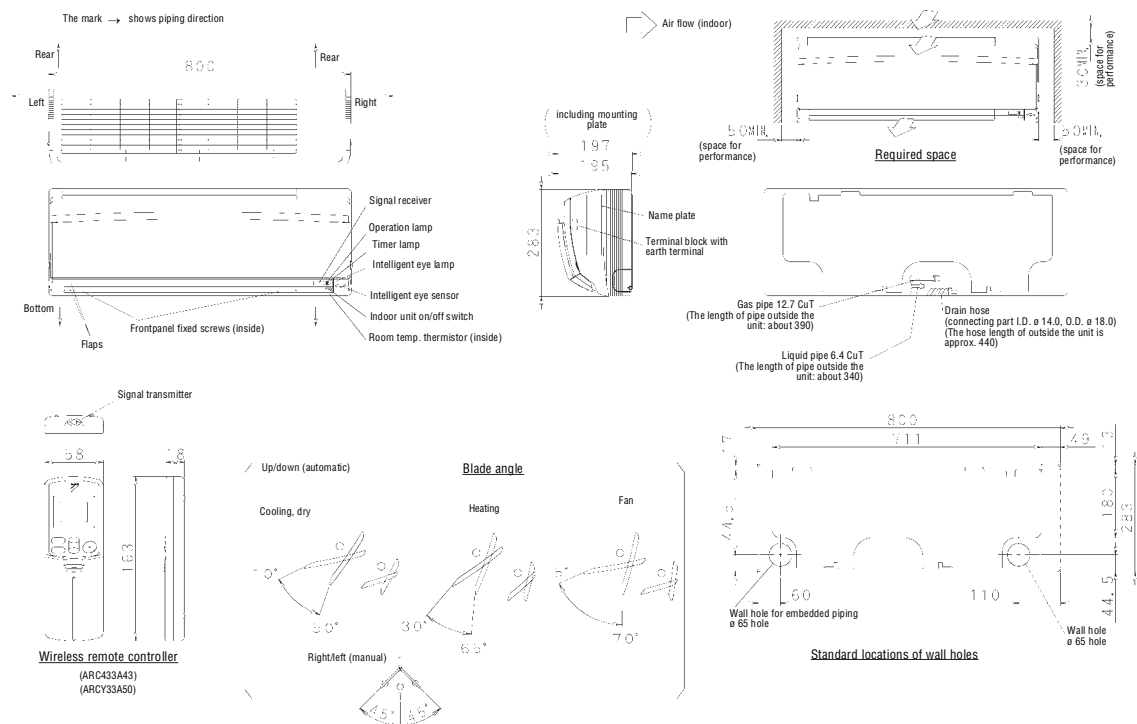
#### NOTES

- 1 Sound values are measured in an anechoic room.
- 2 Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings of this chapter.
- 3 The sound power level is an absolute value indicating the power which a sound source generates.

## 3 Dimensional drawing & centre of gravity

### 3 - 1 Dimensional drawing

FTK/XS20,25,35DVMW/L



3D047234A

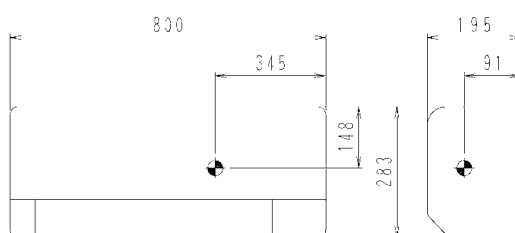


### 3 Dimensional drawing & centre of gravity

#### 3 - 2 Centre of gravity

3

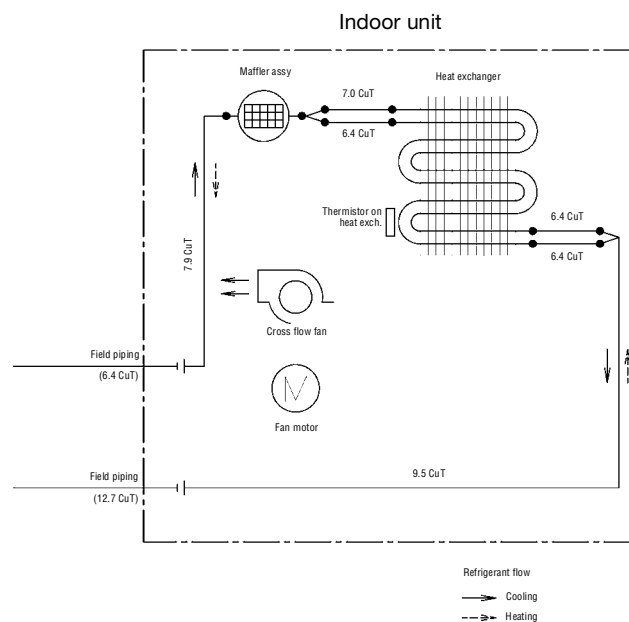
FTK/XS20,25,35DVMW/L



4D048210

## 4 Piping diagram

FTK/XS20,25,35DVMW/L

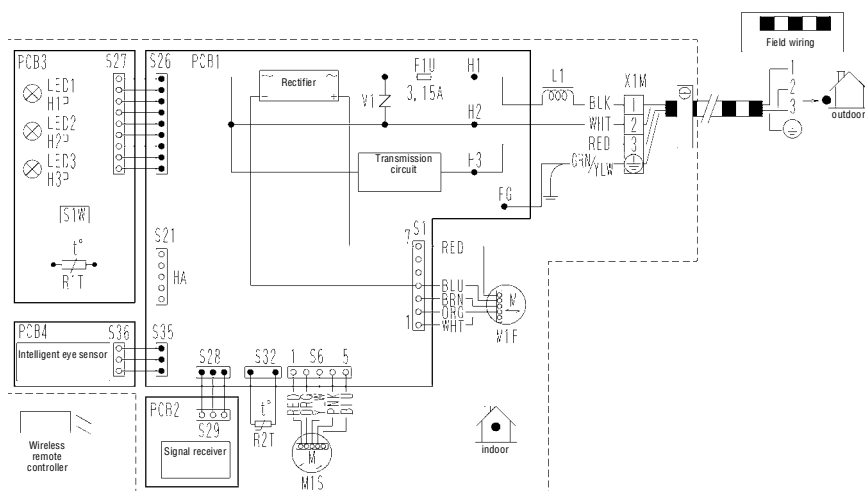


4D047912

## 5 Wiring diagram

5

FTK/XS20,25,35DVMW/L



### LEGEND

|           |                       |
|-----------|-----------------------|
| ⊕         | Protective earth      |
| FG        | Frame ground          |
| F1U       | Fuse                  |
| H1P~H3P   | Pilot lamp            |
| L1        | Coil                  |
| M1F       | Fan motor             |
| M1S       | Swing motor           |
| PCB1~PCB4 | Printed circuit board |
| R1T, R2T  | Thermistor            |
| S1~S38    | Connector             |
| S1W       | Operation switch      |
| X1M       | Terminal strip        |

### NOTES

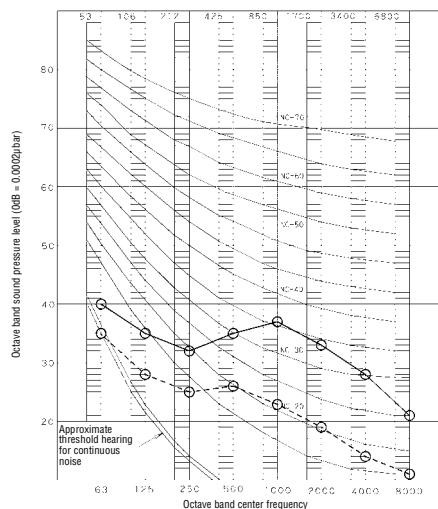
- 1 Size: length 70 x width 120.
- 2 Refer to purchasing specification AS303002, unless otherwise specified.
- 3 This drawing was drawn on CAD system.
- 4 Caution: Note that operation will restart automatically if the main power supply is turned off and then back on again.

3D047523

## 6 Sound data

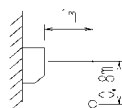
### 6 - 1 Sound pressure spectrum

FTKS20,25DVMW/L



#### NOTES

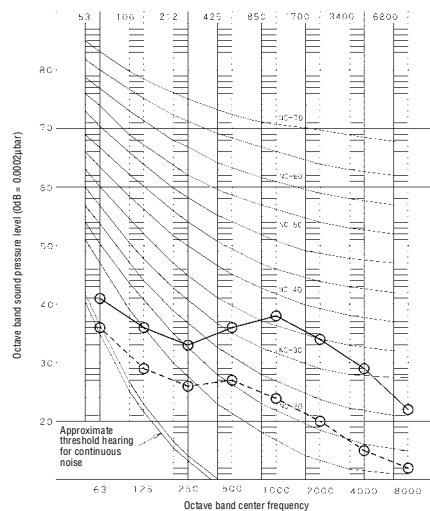
- 1 Measurement was taken in an anechoic room.
- 2 The operation noise measuring method is in accordance with JISC9612.
- 3 Operating conditions:  
Power source = 230 V, 50 Hz  
o-----o H (A = 38) and o---o L (A = 25)
- 4 Operation noise differs with operation and ambient conditions.



Location of microphone

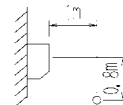
4D048244

FTKS35DVMW/L



#### NOTES

- 1 Measurement was taken in an anechoic room.
- 2 The operation noise measuring method is in accordance with JISC9612.
- 3 Operating conditions:  
Power source = 230/220 V, 50/60 Hz  
o-----o H (A = 39) and o---o L (A = 26)
- 4 Operation noise differs with operation and ambient conditions.



Location of microphone

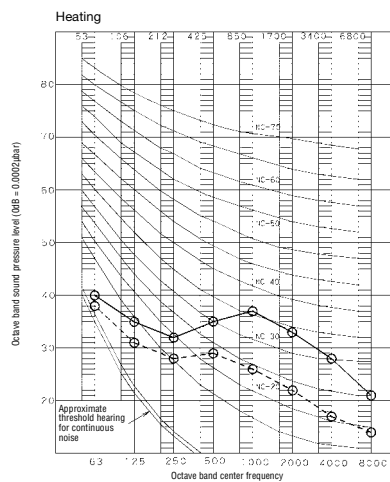
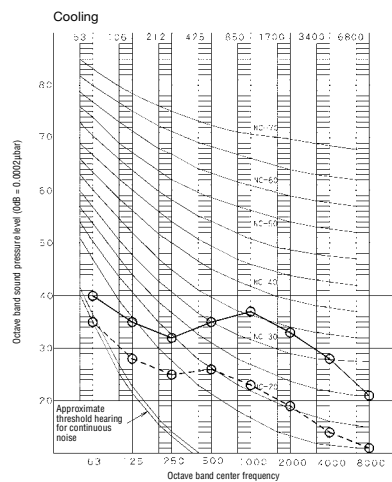
4D048245A

## 6 Sound data

### 6 - 1 Sound pressure spectrum

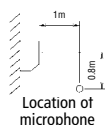
6

#### FTXS20,25D



#### NOTES

- 1 Measurement was taken in an anechoic room.
- 2 The operation noise measuring method is in accordance with JISC9612.
- 3 Operating conditions:  
Power source = 230 V, 50 Hz  
o-----o H (A = 39), o-----o L (A = 26)
- 4 Operation noise differs with operation and ambient conditions.



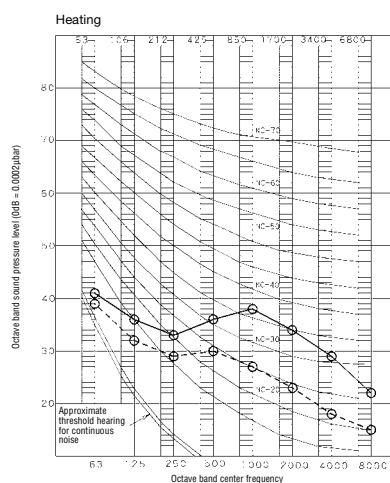
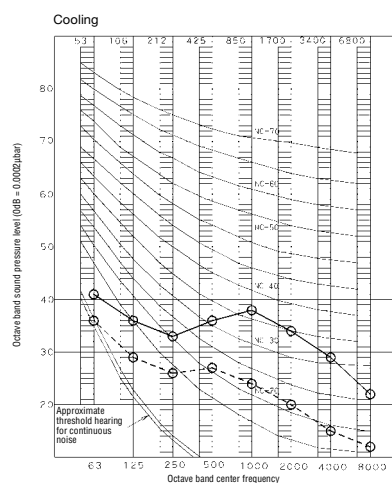
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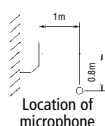
3D048221

#### FTXS35D



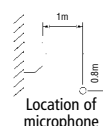
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